BRUHAT BANGALORE MAHANAGARA PALIKE, BYATARAYAPURA ZONE

Executive Engineeer, Project Division, B.B.M.P, Bangalore - 92

SCHEDULE - B

Detailed Estimate for :- Improvements and Repairs of Existing Crematorium building at Hebbal in yelahanka zone.

Sl. No	Description	Unit	App Qty	Approved Rates of Madhusudhan.R	
				Rate in figures	Rate in words
1	Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per direction of Engineer-in-charge	cum	67.50	166.42	Rupees One Hundred Sixty Six And Paise Forty Two Only
2	Earthwork in surface excavation in Hard soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per direction of Engineer-in-charge	cum	118.80	233.2	Rupees Two Hundred Thirty Three And Paise Twenty Only
3	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per direction of Engineer-in-charge	cum	16.20	5159.02	Rupees Five Thousand One Hundred Fifty Nine And Paise Two Only
4	Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:8 (uncoursed), bond stones at two m. apart in each course including cost of materials, labour, curing complete as per direction of Engineer-in-charge	cum	60.75	2000.0	Rupees Two Thousand Only
5	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per direction of Engineer-in-charge	cum	81.00	5305.3	Rupees Five Thousand Three Hundred Five And Paise Thirty Only

Contractor

Executive Engineer
Project Division, Yelahanka Zone BBMP

Sl. No	Description	Unit	App Qty	Approved Rates of	
				Rate in figures	Rate in words
6	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per direction of Engineer-in-charge	cum	12.15	5767.46	Rupees Five Thousand Seven Hundred Sixty Seven And Paise Forty Six Only
7	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per direction of Engineer-in-charge	Sqm	360.00	103.88	Rupees One Hundred Three And Paise Eighty Eight Only
8	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per direction of Engineer-in-charge	Sqm	200.00	274.54	Rupees Two Hundred Seventy Four And Paise Fifty Four Only
9	Extra for removing white wash or colour wash by steel brushing and / or scraping, sand papering the ceiling and / or sloping roof surface smooth including repairs to scraches, cost of labour, complete as per direction of Engineer-in-charge	Sqm	1900.00	6.36	Rupees Six And Paise Thirty Six Only
10	Providing and applying one coat on old surface dry distemper of approved brand, and shade on wall surface after thoroughly brooming the surface clean of all gease, dirt, loose pieces of scales including preparing the surface even and sand paper smooth, cost of material, labour, complete as per direction of Engineer-in-charge	Sqm	1100.00	53.0	Rupees Fifty Three Only
11	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per direction of Engineer-in-charge	Sqm	800.00	75.26	Rupees Seventy Five And Paise Twenty Six Only

Contractor

Sl. No	Description	Unit	App Qty	Approved Rates of	
				Rate in figures	Rate in words
12	Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications..(Page No 114., I.No.15.19 of KPWD S.R 2016-17).AND KSRB15-4.4 Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, forcement mortar 1:4, 18mm thick cost of materials complete as per direction of Engineer-in-charge	Sqm	24.02	248.04	Rupees Two Hundred Forty Eight And Paise Four Only
13	Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per direction of Engineer-in-charge	Nos	4.00	5437.8	Rupees Five Thousand Four Hundred Thirty Seven And Paise Eighty Only
14	Providing and fixing 1mm thick M.S. sheet garage door with frame and diagonal braces of size 40x40x6 mm angle Iron, 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM of machinery complete as per direction of Engineer-in-charge	Nos	9.35	2471.92	Rupees Two Thousand Four Hundred Seventy One And Paise Ninety Two Only
15	Providing and fixing 1mm thick M.S. sheet garage door with frame and diagonal braces of size 40x40x6 mm angle Iron, using M.S. flats 30x6 mm for diagonal braces and central cross pieces 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM of machinery complete as per direction of Engineer-in-charge	Nos	7.00	2025.66	Rupees Two Thousand Twenty Five And Paise Sixty Six Only

Contractor

Sl. No	Description	Unit	App Qty	Approved Rates of	
				Rate in figures	Rate in words
16	Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per direction of Engineer-in-charge	Nos	2.00	3187.42	Rupees Three Thousand One Hundred Eighty Seven And Paise Forty Two Only
17	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 25mm nominal OD pipes. as per direction of Engineer-in-charge	Rmtr	40.00	180.2	Rupees One Hundred Eighty And Paise Twenty Only
18	Providing and fixing in position brass stop cock of approved quality 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads completeas per direction of Engineer-in-charge	Nos	6.00	167.48	Rupees One Hundred Sixty Seven And Paise Forty Eight Only
19	Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per direction of Engineer-in-charge	Nos	2.00	3145.02	Rupees Three Thousand One Hundred Forty Five And Paise Two Only
20	Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per direction of Engineer-in-charge	Nos	2.00	1250.8	Rupees One Thousand Two Hundred Fifty And Paise Eighty Only

Executive Engineer

Sl. No	Description	Unit	App Qty	Approved Rates of	
				Rate in figures	Rate in words
21	Constructing brick masonry inspection chamber 500x700mm, and 450mm depth, (clear inside dimension) for pipeline with one or two inlets, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal , foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per direction of Engineer-in-charge	Nos	2.00	8258.46	Rupees Eight Thousand Two Hundred Fifty Eight And Paise Forty Six Only
22	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 110mm outer dia as per direction of Engineer-in-charge	Rmtr	20.00	729.28	Rupees Seven Hundred Twenty Nine And Paise Twenty Eight Only
23	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per direction of Engineer-in-charge	Kgs	1148.82	82.68	Rupees Eighty Two And Paise Sixty Eight Only
24	Providing and Fixing glass pannel 5.5mm thick to the windows as per direction of Engineer-in-charge	Sqm	12.50	650.0	Rupees Six Hundred Fifty Only
25	Providing & Fixing Mosquito mesh shutters made out of Stainless Steel mosquito proof mesh with 95% & above visibility which is fixed to the powder coated aluminium frame 20mm thick of approved shade. The work including fixing the shutters with necessary accessories, to complete as per specification including the labour charges for fixing the shutter to the existing frames.as per direction of Engineer-in-charge	Sqm	25.00	2756.0	Rupees Two Thousand Seven Hundred Fifty Six Only

Contractor

Executive Engineer
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Sl. No	Description	Unit	App Qty	Approved Rates of	
				Rate in figures	Rate in words
26	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per direction of Engineer-in-charge	Sqm	105.60	966.72	Rupees Nine Hundred Sixty Six And Paise Seventy Two Only
27	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete as per direction of Engineer-in-charge	Each	275.00	331.78	Rupees Three Hundred Thirty One And Paise Seventy Eight Only
28	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per direction of Engineer-in-charge	Each	1.00	1938.46	Rupees One Thousand Nine Hundred Thirty Eight And Paise Forty Six Only
29	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) as per direction of Engineer-in-charge 0 to 50 m	Mtr	50.00	315.18	Rupees Three Hundred Fifteen And Paise Eighteen Only
30	50 to 100 m	Mtr	50.00	412.0	Rupees Four Hundred Twelve Only

Contractor

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Sl. No	Description	Unit	App Qty	Approved Rates of	
				Rate in figures	Rate in words
31	100 to 150 m	Mtr	50.00	458.35	Rupees Four Hundred Fifty Eight And Paise Thirty Five Only
32	150 to 200 m	Mtr	50.00	484.1	Rupees Four Hundred Eighty Four And Paise Ten Only
33	200 to 250 m	Mtr	50.00	560.32	Rupees Five Hundred Sixty And Paise Thirty Two Only
34	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) as per direction of Engineer-in-charge	Rmtr	54.00	1325.0	Rupees One Thousand Three Hundred Twenty Five Only
35	Providing 250mm dia PVC Pipe BWSSB as per direction of Engineer-in-charge	Rmtr	12.00	1064.0	Rupees One Thousand Sixty Four Only
36	Providing 175mm dia ms casing cap as per direction of Engineer-in-charge	No	1.00	103.0	Rupees One Hundred Three Only
37	Providing MS Casing pipe collars as per direction of Engineer-in-charge	No	6.00	154.5	Rupees One Hundred Fifty Four And Paise Fifty Only
38	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings . as per direction of Engineer-in-charge	No	1.00	40000.0	Rupees Forty Thousand Only

Contractor

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Sl. No	Description	Unit	App Qty	Approved Rates of	
				Rate in figures	Rate in words
39	Providing and fixing to wall celling and floor glavanised/ mild steel tubes (medium grade 1.27 kg /mt) B class 50 mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications as per direction of Engineer-in-charge	Mtr	300.00	540.6	Rupees Five Hundred Forty And Paise Sixty Only
40	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and Powder coated extrued PVC sheathed suitable for working voltage upto 1100 Volts as per IS - 694 ; 1990 AND CONFORMING TO gtp OFGROUP A P. No. 12/ I No. (2.10.4) 3cx 6.0 Sqm as per direction of Engineer-in-charge	Mtr	620.00	188.7	Rupees One Hundred Eighty Eight And Paise Seventy Only
41	Labour charges for erection of new/ repaired submersible pumpset along with gi pipes inculding transportion each length as per direction of Engineer-in-charge	No	50.00	88.0	Rupees Eighty Eight Only
42	Supplying and flush polished wood board with out front frount plank made of not less than 15mm thick plank after due groove cutting Finishing with necessary on fixing the same to the wall using tapered inverted wooden plugs screws etc., as per direction of Engineer-in-charge	Each	1.00	302.0	Rupees Three Hundred Two Only
43	Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER SHEATHRD galvnised steel,stirp confirming IS 3975;1990 AND extruded PVC outer sheathing armoured cable IS 1554 part 1;1998 and confirming to GTP of group.as per direction of Engineer-in-charge	Mtr	35.00	140.4	Rupees One Hundred Forty And Paise Forty Only
44	Labour charges for laying of 1.1 K.V class UG cable, P No. 61 / I No. 7.8.1 In existing trench/duct 6Sqmm to 16 Sqmm) as per direction of Engineer-in-charge	Mtr	35.00	10.8	Rupees Ten And Paise Eighty Only
45	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete as per direction of Engineer-in-charge	Mtr	30.00	117.0	Rupees One Hundred Seventeen Only
46	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class as per direction of Engineer-in-charge	Mtr	3.00	345.0	Rupees Three Hundred Forty Five Only

Contractor

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Sl. No	Description	Unit	App Qty	Approved Rates of	
				Rate in figures	Rate in words
47	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., as per direction of Engineer-in-charge	NO	1.00	280.0	Rupees Two Hundred Eighty Only
48	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, as per direction of Engineer-in-charge	NO	1.00	2727.0	Rupees Two Thousand Seven Hundred Twenty Seven Only
49	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... as per direction of Engineer-in-charge	Each	3.00	360.0	Rupees Three Hundred Sixty Only
50	Supplying and fixing of heavy duty glands for ug cable 1.1 kv etc., complete.... as per direction of Engineer-in-charge 25mm dia	Each	12.00	86.0	Rupees Eighty Six Only
51	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 32 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per direction of Engineer-in-charge	Each	1.00	1547.0	Rupees One Thousand Five Hundred Forty Seven Only
52	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 as per direction of Engineer-in-charge	Sq.Cm	37650.00	0.33	Rupees And Paise Thirty Three Only
53	Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 as per direction of Engineer-in-charge	Nos	1.00	158.76	Rupees One Hundred Fifty Eight And Paise Seventy Six Only
54	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. as per direction of Engineer-in-charge	Nos	2.00	227.9	Rupees Two Hundred Twenty Seven And Paise Ninety Only

Contractor

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Sl. No	Description	Unit	App Qty	Approved Rates of	
				Rate in figures	Rate in words
55	Gate value 50 mm nominal bore gun metal as per direction of Engineer-in-charge	Nos	3.00	1650.0	Rupees One Thousand Six Hundred Fifty Only
56	NIPPLE 50 mm nominal bore gun metal as per direction of Engineer-in-charge	Nos	1.00	104.3	Rupees One Hundred Four And Paise Thirty Only
57	S BEND 50 mm nominal bore gun metal as per direction of Engineer-in-charge	Nos	3.00	219.0	Rupees Two Hundred Nineteen Only
58	TEE 50 mm nominal bore gun metal as per direction of Engineer-in-charge	Nos	1.00	169.0	Rupees One Hundred Sixty Nine Only
59	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. as per direction of Engineer-in-charge	Nos	1.00	12000.0	Rupees Twelve Thousand Only
60	Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in ordinary soil, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per direction of Engineer-in-charge	cum	112.50	166.42	Rupees One Hundred Sixty Six And Paise Forty Two Only
61	Providing and installing at site of work pvc pipes including cost of pipes and special and labour including lowering into trenches laying true to line level and prefect linking at joints, leak proof including jointing of approved type with all labour and lift charges handling charges including encasing the pipes all round to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete PVC pipe of 6kg/cm2 63mm (0.662) as per direction of Engineer-in-charge	Mtr	250.00	115.36	Rupees One Hundred Fifteen And Paise Thirty Six Only
62	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50m and lift upto 1.5m including cost of all labour complete as per direction of Engineer-in-charge	cum	112.50	95.4	Rupees Ninety Five And Paise Forty Only

Contractor

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